US 301 ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED LED SIGNALS

1,2,4,5,6,10 | 7,8,9 | 11,12,15,18 | 13,16 | 14,17

PROPOSED VIDEO DETECTION a,b,c,d

12" | 12" | 8"/12" | 12"

PROPOSED SIGNS

20,22,23,27,31,32	33	26	29	30	25
R3-5(MOD) 30"x36"	R3-5(L) 30"x36"	R3-6(L) 30"x36"	48"x75" SHIELD ASSEMBLY	30"x51" SHIELD ASSEMBLY	48"x75" SHIELD ASSEMBLY	30"x51" SHIELD ASSEMBLY

28,34 — Robert S. Crain HWY — D-3(I) VARx16" DUAL FACED

24 — Clymer Dr — D-3(I) VARx16" DUAL FACED

21 — Matapeake Bus Dr — D-3(I) VARx16" DUAL FACED

LINE HEIGHTS SOUTHEAST CORNER (LHI)	
TELEPHONE	24'-7"
TELEPHONE	23'-7"
TELEPHONE	21'-10"
TELEPHONE	20'-11"

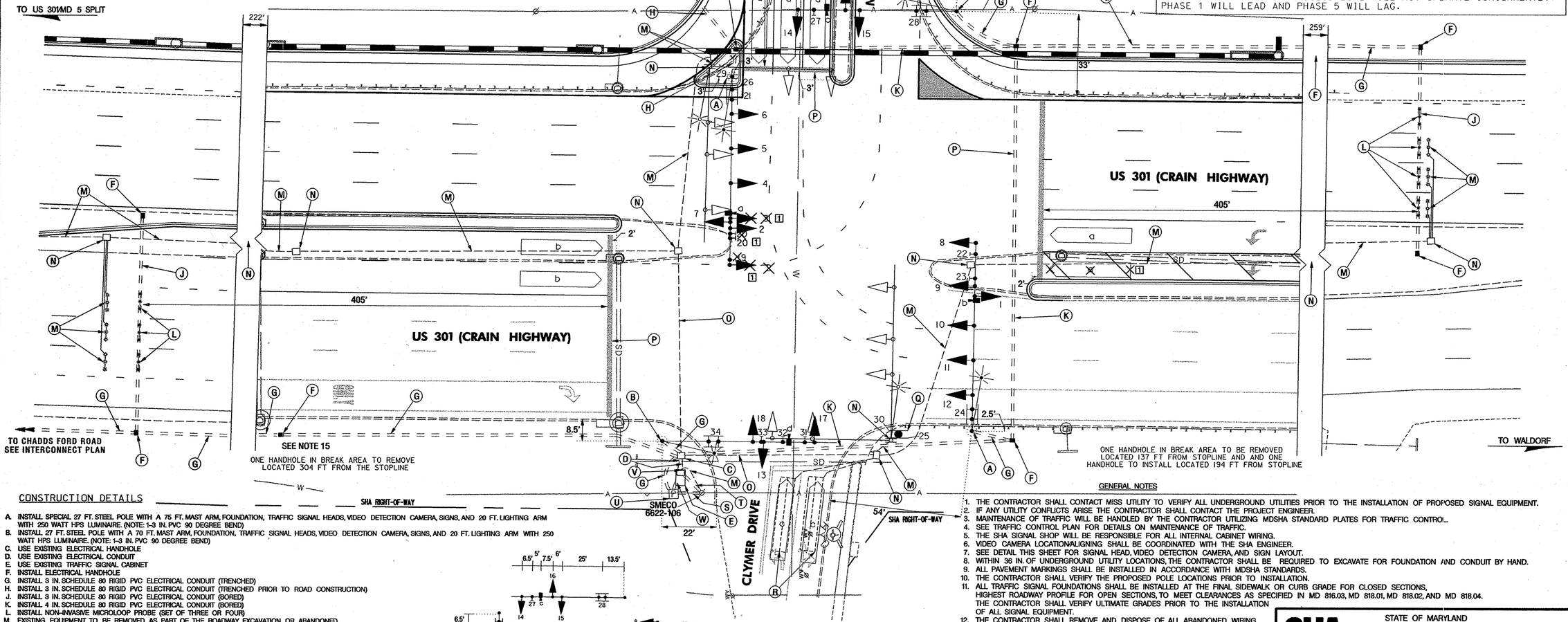
SPECIAL NOTE: VERIZON WILL BE RELOCATING THE EXISTING POLE LINE ON THE EAST SIDE OF US 301 APPROXIMATELY 15 FEET EAST OF ITS EXISTING LOCATION.

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6

FLASHING OPERATION

NOTE:
PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
PHASE 1 WILL LEAD AND PHASE 5 WILL LAG.



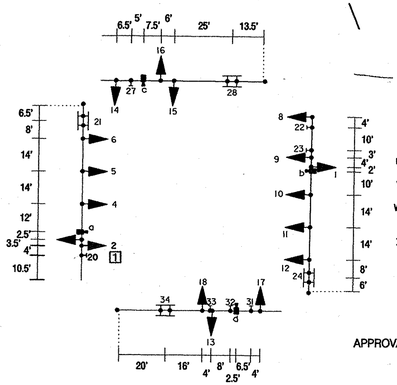
CONSTRUCTION DETAILS

A. INSTALL SPECIAL 27 FT. STEEL POLE WITH A 75 FT. MAST ARM, FOUNDATION, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, AND 20 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE. (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
B. INSTALL 27 FT. STEEL POLE WITH A 70 FT. MAST ARM, FOUNDATION, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, AND 20 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE. (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
C. USE EXISTING ELECTRICAL HANDHOLE
D. USE EXISTING ELECTRICAL CONDUIT
E. USE EXISTING TRAFFIC SIGNAL CABINET
F. INSTALL ELECTRICAL HANDHOLE
G. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
H. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED PRIOR TO ROAD CONSTRUCTION)
J. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
K. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
L. INSTALL NON-INVASIVE MICROLOOP PROBE (SET OF THREE OR FOUR)
M. EXISTING EQUIPMENT TO BE REMOVED AS PART OF THE ROADWAY EXCAVATION OR ABANDONED
N. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT. NOTE: REMOVE ALL FOUNDATIONS 12 INCHES BELOW GRADE.
O. ABANDON EXISTING CONDUIT (CAP AT THE NEAREST HANDHOLE)
P. INSTALL 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (FOR STOP LINE)
Q. INSTALL GROUND MOUNTED SIGNS ON ONE 4 IN.X 6 IN.WOOD POST
R. CUT AND ABANDON EXISTING LOOP DETECTOR
S. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) – FOR UNDERGROUND POWER SERVICE. THE CONTRACTOR SHALL CAP, MARK, AND LEAVE A ONE FOOT STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
T. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) – FOR PROPOSED TELEPHONE SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.

UTILITY LEGEND

SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
F — FIBER-OPTIC

LENHART TRAFFIC CONSULTING
TRAFFIC ENGINEERING & TRANSPORTATION PLANNING
331 Redwood Grove Court Millersville, Maryland 21108
Tel: (410) 987-5888 Fax: (443) 782-2288



CONSTRUCTION DETAILS (CONT.)

U. INSTALL METERED SERVICE PEDESTAL (NOTE: 2-3 IN. AND 1-4 IN. PVC 90 DEGREE BENDS)
V. REMOVE EXISTING ELECTRICAL SERVICE EQUIPMENT FROM EXISTING CABINET/CAP KNOCKOUT.
W. INSTALL 3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED). USE EXISTING 3 IN. PVC 90 DEGREE BEND IN CABINET BASE.
X. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) – FOR UNDERGROUND POWER SERVICE. THE CONTRACTOR SHALL CAP, MARK, AND LEAVE A ONE FOOT STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.

APPROVAL: *Joseph W. Kroll* 3/4/09

1 REDLINE REVISION NO.1 02-15-2008

GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT.
2. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
3. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MDSHA STANDARD PLATES FOR TRAFFIC CONTROL..
4. SEE TRAFFIC CONTROL PLAN FOR DETAILS ON MAINTENANCE OF TRAFFIC.
5. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
6. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
7. SEE DETAIL THIS SHEET FOR SIGNAL HEAD, VIDEO DETECTION CAMERA, AND SIGN LAYOUT.
8. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
9. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MDSHA STANDARDS.
10. THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
11. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
12. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED WIRING.
13. THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL THE MODIFIED TRAFFIC SIGNAL IS OPERATIONAL.
14. THE CONTRACTOR SHALL CONTACT MR. ED RODENHIZER 72 HOURS IN ADVANCE OF SIGNAL CONSTRUCTION.
15. THE CONTRACTOR SHALL BORE PORTION OF 3 INCH CONDUIT UNDER STORM DRAIN STRUCTURES ON THE WEST SIDE OF US 301.

GEOMETRIC LEGEND

EXISTING
PROPOSED

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 301 (CRAIN HIGHWAY) AT CLYMER DRIVE/MATAPEAKE BUSINESS DRIVE

TRAFFIC SIGNALIZATION PLAN

APPROVALS: TEAM LEADER; ASST. DIV. CHIEF; DIVISION CHIEF; OFFICE DIRECTOR — ORIGINALS ON FILE

REVISIONS
B MODIFY TRAFFIC SIGNAL FOR NEW GEOMETRICS — NOVEMBER 2007 — BW999M82
A REMOVE AND REPLACE EP LT WITH EXCLUSIVE LT ADD THIRD SIGNAL HEAD FOR THRU MOVEMENT — JAN 2004 — BW939M82
CJW | MAR | DAZ | | | BRK

SCALE 1" = 20' DATE FEBRUARY 2001 CONTRACT NO. N/A

DESIGNED BY J. ALLEN
DRAWN BY J. ALLEN
CHECKED BY S. RENZI
F.A.P. NO. N/A

COUNTY PRINCE GEORGE'S
LOGMILE 16030100.77
T.I.M.S. NO. I-666
TOD NO.

DRAWING NO. TS-4065-B OF
SHEET NO. OF